6/30/02

Some additional searches for NOCL

nocl

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

2696-92<del>/</del>6/thu **2**023 2696-92**-**6 447859 THU/RL

1 2696-92-6/THU L1

(2696-92-6 (L) THU/RL)

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Using 11ROLE" fineting of captures. ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS L1AN2001:582316 CAPLUS

135:147442 DN

Treating pulmonary disorders with gaseous agent causing repletion of GSNO ΤI

Stamler, Jonathan S. IN

Duke University, USA PA

U.S. Pat. Appl. Publ., 7 pp., Cont.-in-part of U.S. Ser. No. 390,215. SO CODEN: USXXCO

DTPatent

English LA

FAN. CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2001012834	A1	20010809	US 2001-782077	20010214
US 6314956	В1	20011113	US 1999-390215	19990908
PRAI US 1999-390215	A2	19990908		

- L11 ANSWER 1 OF 11 MEDLINE
- AN 1999255413 MEDLINE
- DN 99255413 PubMed ID: 10320676
- TI Nitrite and nitrosyl compounds in food preservation.
- AU Cammack R; Joannou C L; Cui X Y; Torres Martinez C; Maraj S R; Hughes M N
- CS Division of Life Sciences, King's College, London W8 7AH, UK.. richard.cammack@kcl.ac.uk
- SO BIOCHIMICA ET BIOPHYSICA ACTA, (1999 May 5) 1411 (2-3) 475-88. Ref: 116 Journal code: 0217513. ISSN: 0006-3002.
- CY Netherlands
- DT Journal; Article; (JOURNAL ARTICLE)
  General Review; (REVIEW)
  (REVIEW, TUTORIAL)
- LA English
- FS Priority Journals
- EM 199906
- ED Entered STN: 19990628
  Last Updated on STN: 19990628
  Entered Medline: 19990614
- Nitrite is consumed in the diet, through vegetables and drinking water. It AΒ is also added to meat products as a preservative. The potential risks of this practice are balanced against the unique protective effect against toxin-forming bacteria such as Clostridium botulinum. The chemistry of nitrite, and compounds derived from it, in food systems and bacterial cells are complex. It is known that the bactericidal species is not nitrite itself, but a compound or compounds derived from it during food preparation. Of a range of nitrosyl compounds tested, the anion of Roussin's black salt [Fe4S3(NO)7]- was the most inhibitory to C. sporogenes. This compound is active against both anaerobic and aerobic food-spoilage bacteria, while some other compounds are selective, indicating multiple sites of action. There are numerous possible targets for inhibition in the bacterial cells, including respiratory chains, iron-sulfur proteins and other metalloproteins, membranes and the genetic apparatus.
- L11 ANSWER 2 OF 11 MEDLINE
- AN 94283627 MEDLINE
- DN 94283627 PubMed ID: 8013660
- TI Thermodynamic considerations on the formation of reactive species from hypochlorite, superoxide and nitrogen monoxide. Could nitrosyl chloride be produced by neutrophils and macrophages?.
- AU Koppenol W H
- CS Department of Chemistry, Louisiana State University, Baton Rouge 70803.
- NC GM48829 (NIGMS)
- SO FEBS LETTERS, (1994 Jun 20) 347 (1) 5-8. Journal code: 0155157. ISSN: 0014-5793.
- CY Netherlands
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 199407
- ED Entered STN: 19940810
  - Last Updated on STN: 19940810
  - Entered Medline: 19940728
- AB Hypohalous acids are poor one-electron oxidizing agents, such that reactions with hydrogen peroxide to yield radical species are not feasible. However, the oxidation of superoxide by hypohalous acids can be

a source of hydroxyl or haline radicals. The oxidation of nitrogen monoxide by hypochlorous acid is favourable, but in all likelihood cannot compete with the diffusion-controlled reaction with superoxide to yield peroxynitrite. The reaction of the latter with hypochlorous acid may lead to nitrosyl chloride, a strongly oxidizing agent [Eo'(NOCl/NO., Cl) = 1.0 V] that is capable of nitrosylating organic compounds and thereby generating mutagens or promutagens.

L11 ANSWER 3 OF 11 MEDLINE

AN 91190289 MEDLINE

DN 91190289 PubMed ID: 2012683

TI Synergistic effects of air pollutants: ozone plus a respirable aerosol.

AU Last J A

CS Department of Internal Medicine, University of California, Davis.

SO RESEARCH REPORT / HEALTH EFFECTS INSTITUTE, (1991 Jan) (38) 1-32; discussion 33-43.

Journal code: 8812230. ISSN: 1041-5505.

Report No.: NASA-91190289.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals; Space Life Sciences

EM 199105

ED Entered STN: 19910602

Last Updated on STN: 19910602

Entered Medline: 19910516

Rats were concurrently exposed to mixtures of ozone or nitrogen dioxide AΒ and respirable-sized aerosols of sulfuric acid, ammonium sulfate, or sodium chloride, or to each pollutant individually. Their responses to such exposures were evaluated by various quantitative biochemical analyses of lung tissue or lavage fluids, or by morphometric analyses. Such studies were performed in the acute time frame, generally involving exposures of from one to nine days, depending on the assays used. Correlations between the biochemical and morphometric results were examined over a wide range of pollutant concentrations in the exposure chambers. Good correlations were found between the most sensitive biochemical indicators of lung damage -- the protein content of lung lavage fluid or whole lung tissue and the rate of lung collagen synthesis--and the morphometric estimation of volume density or volume percent of the centriacinar lung lesion characteristically observed in animals exposed to ozone. Synergistic interaction between ozone and sulfuric acid aerosol was demonstrated to occur at environmentally relevant concentrations of both pollutants by several of the analytical methods used. Such interactions were demonstrated at concentrations of ozone as low as 0.12 parts per million (ppm)2 and of sulfuric acid aerosol at concentrations as low as 5 to 20 micrograms/m3. The acidity of the aerosol is a necessary (and apparently a sufficient) condition for such a synergistic interaction between an oxidant gas and a respirable aerosol to occur. A hitherto unexpected synergistic interaction between nitrogen dioxide and sodium chloride aerosol was found during these studies; it is hypothesized that this was due to formation of their acidic (anhydride) reaction product, nitrosyl chloride, in the chambers during exposure to the mixture. Preliminary experiments treating exposed animals in vivo with various free-radical scavengers suggested that dimethylthiourea, a hydroxyl-radical scavenger, might be protective against effects of ozone on rat lungs. This observation might have mechanistic implications, but further studies will be necessary to determine the significance of these findings.

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L11 ANSWER 4 OF 11
                        MEDLINE
     87320370
                 MEDLINE
AN
               PubMed ID: 3629590
     87320370
DN
     Synergistic interaction between nitrogen dioxide and respirable aerosols
TΤ
     of sulfuric acid or sodium chloride on rat lungs.
     Last J A; Warren D L
ΑU
     ES-00628 (NIEHS)
NC
     HL-07013 (NHLBI)
     RR-00169 (NCRR)
     TOXICOLOGY AND APPLIED PHARMACOLOGY, (1987 Aug) 90 (1) 34-42.
SO
     Journal code: 0416575. ISSN: 0041-008X.
CY
    United States
DT
     Journal; Article; (JOURNAL ARTICLE)
LΑ
     English
FS
     Priority Journals
EM
     198710
     Entered STN: 19900305
ED
     Last Updated on STN: 19970203
     Entered Medline: 19871001
AB
    We examined interactions in rats between NO2 gas and respirable aerosols
     of sulfuric acid (H2SO4) or sodium chloride (NaCl). Rats were exposed for
     1, 3, or 7 days to 5 ppm of NO2 gas, alone or in combination with 1 mg/m3
     of H2SO4 or NaCl aerosols. The apparent rate of collagen synthesis by lung
     minces was measured after 7 days of exposure, and the protein content of
     whole lung lavage fluid was measured after 1 or 3 days of exposure.
     Responses from rats exposed to 5 ppm of NO2 alone were significantly
     different from controls by these assays. A synergistic interaction was
     demonstrated between 5 ppm of NO2 and 1 mg/m3 of either H2SO4 or NaCl
     aerosol as evaluated by measurement of the rate of lung collagen
     synthesis. A synergistic interaction was also demonstrated by the
     criterion of increased protein content of lung lavage fluid in rats
     exposed to 5 ppm of NO2 and 1 mg/m3 of H2SO4 aerosol after 1 day of
     exposure and between 5 ppm of NO2 and 1 mg/m3 of NaCl aerosol after 3 days
     of exposure. These observations with 5 ppm of NO2 alone and in combination
     with 1 mg/m3 of NaCl aerosol support the hypothesis that formation of
     nitrosyl chloride may contribute to a synergistic
     interaction between NO2 gas and NaCl aerosol. These results suggest that,
     in general, combinations of oxidant gases with respirable acidic aerosols
     or with acidogenic gases will demonstrate interactive effects on rat
     lungs. Such a hypothesis is testable and makes specific predictions about
     effects of inhalation of pollutant mixtures.
L11 ANSWER 5 OF 11
                        MEDLINE
                 MEDLINE
ΑN
     83212241
               PubMed ID: 6853027
DN
     83212241
TI
     Partially modified retro-inverso peptides. Comparative Curtius
     rearrangements to prepare 1,1-diaminoalkane derivatives.
     Chorev M; Goodman M
NC
     AM 15410 (NIADDK)
     INTERNATIONAL JOURNAL OF PEPTIDE AND PROTEIN RESEARCH, (1983 Mar) 21 (3)
SO
     258-68.
     Journal code: 0330420. ISSN: 0367-8377.
CY
     Denmark
DT
     Journal; Article; (JOURNAL ARTICLE)
LΑ
     English
FS
     Priority Journals
EM
     198307
ED
     Entered STN: 19900319
     Last Updated on STN: 19970203
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Entered Medline: 19830715

AB Several synthetic routes are reported to prepare the hetero diprotected 1,1-diaminoalkanes from N-acylated amino acids or peptides for incorporation into partially modified retro-inverso peptides. The Curtius rearrangement was carried out on the N-protected aminoacyl azides obtained from the N-protected aminoacyl hydrazide by nitrosyl chloride or by sodium azide reaction with an appropriate mixed carboxylic carbonic acid anhydride. The resulting isocyanate was allowed to react with alcohol to give a urethane-type protecting group or, via a "one-pot" approach, directly with a carboxyl carrying component to yield the modified (reversed) peptide bond. The carboxyl component can be either an N-acylated amino acid or a malonic acid. The more standard route involves selective deprotection of the 1,1-diaminoalkane residue followed immediately by coupling with a carboxyl component to yield the same modified peptide derivative.

- L11 ANSWER 6 OF 11 MEDLINE
- AN 80075759 MEDLINE
- DN 80075759 PubMed ID: 292815
- TI Synthesis of 1-(2-hydroxyethyl)-1-nitrosourea and comparison of its carcinogenicity with that of 1-ethyl-1-nitrosourea.
- AU Swenson D H; Frei J V; Lawley P D
- SO JOURNAL OF THE NATIONAL CANCER INSTITUTE, (1979 Dec) 63 (6) 1469-73. Journal code: 7503089. ISSN: 0027-8874.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 198002
- ED Entered STN: 19900315

Last Updated on STN: 19980206 Entered Medline: 19800215

- AB 1-(2-Hydroxyethyl)-1-nitrosourea (HNU) was prepared by the action of nitrosyl chloride on (2-hydroxyethyl)urea. Attempts to synthesize HNU by an earlier described method were unsuccessful and led to the formation of the cyclized derivative 1-nitroso-2-oxazolidone. In addition, the spectral data that we obtained for HNU differed from those reported earlier. Female C57BL/Cbl mice were treated with single ip doses of HNU to determine its median lethal dose (LD50) and its ability to induce lymphocytic thymic lymphomas in these mice. The results showed that the LD50 was the same as that for 1-ethyl-1-nitrosourea (ENU) and that its was slightly more potent than ENU as a carcinogen in this system.
- L11 ANSWER 7 OF 11 MEDLINE
- AN 69150583 MEDLINE
- DN 69150583 PubMed ID: 5776254
- TI Chemistry of cephalosporin antibiotics. XIV. The reaction of cephalosporin C with nitrosyl chloride.
- AU Morin R B; Jackson B G; Flynn E H; Roeske R W; Andrews S L
- SO JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, (1969 Mar 12) 91 (6) 1396-400. Journal code: 7503056. ISSN: 0002-7863.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 196905
- ED Entered STN: 19900101

Last Updated on STN: 19900101 Entered Medline: 19690515

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L11 ANSWER 8 OF 11
                        MEDLINE
AN
     68124235
                 MEDLINE
DN
     68124235
               PubMed ID: 6080113
ΤI
     The reaction of nitrosyl chloride and of nitryl
     chloride with 2-cholestene.
     Terada A; Hassner A
ΑIJ
     BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN, (1967 Aug) 40 (8) 1937-40.
SO
     Journal code: 7505371. ISSN: 0009-2673.
CY
     Japan
     Journal; Article; (JOURNAL ARTICLE)
DT
LΑ
     English
FS
     Priority Journals
EΜ
     196803
ED
     Entered STN: 19900101
     Last Updated on STN: 19900101
     Entered Medline: 19680330
L11 ANSWER 9 OF 11
                        MEDLINE
     66108200
                  MEDLINE
AN
                PubMed ID: 5866250
DN
     66108200
TΙ
     Photochemical reactions on heterocyclic compounds. I. Nitration of
     quinoline 1-oxide with nitrosyl chloride and n-butyl
     nitrite.
ΑU
     Kosuge T; Yokota M; Sawanishi H
     CHEMICAL AND PHARMACEUTICAL BULLETIN, (1965 Dec) 13 (12) 1480-1.
SO
     Journal code: 0377775. ISSN: 0009-2363.
CY
     Japan
     Journal; Article; (JOURNAL ARTICLE)
DТ
LΑ
     English
FS
     Priority Journals
EM
     196606
     Entered STN: 19900101
ED
     Last Updated on STN: 19900101
     Entered Medline: 19660619
L11 ANSWER 10 OF 11
                         MEDLINE
AN
     66099399
                  MEDLINE
DN
     66099399
                PubMed ID: 5863920
ΤI
     [Inosine-N(1)-oxide nucleotide in complex formation. I. Synthesis of
     inosine-N(1)-oxide and its 5'-monophosphate from adenosine-N(1)-oxide and
     its 5'monophosphate by deamination with nitrosyl
     chloride].
     Inosin-N(1)-oxid-Nucleotide als Komplexbildner. I. Darstellung von
     Inosin-N(1)-oxid und dessen 5'-Monophosphat aus Adenosin-N(1)-oxid und
     dessen 5'-Monophosphat durch Desaminierung mit Nitrosylchlorid.
ΑU
     Sigel H; Brintzinger H
SO
     HELVETICA CHIMICA ACTA, (1965 Apr 20) 48 (3) 433-7.
     Journal code: 2985094R. ISSN: 0018-019X.
CY
     Switzerland
DT
     Journal; Article; (JOURNAL ARTICLE)
LΑ
     German
FS
     Priority Journals
EM
     196605
     Entered STN: 19900101
ED
     Last Updated on STN: 19900101
     Entered Medline: 19660525
```

L11 ANSWER 11 OF 11

MEDLINE

AN 66098002 MEDLINE

DN 66098002 PubMed ID: 5863456

- TI Studies on acetylenic compounds. XL. The addition reaction of **nitrosyl chloride** and nitryl chloride to acetylenic compounds.
- AU Iwai I; Tomita K; Ide J
- SO CHEMICAL AND PHARMACEUTICAL BULLETIN, (1965 Feb) 13 (2) 118-29. Journal code: 0377775. ISSN: 0009-2363.
- CY Japan

. . . .

- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 196605
- ED Entered STN: 19900101

Last Updated on STN: 19900101 Entered Medline: 19660523